

1/21

Fig. 1

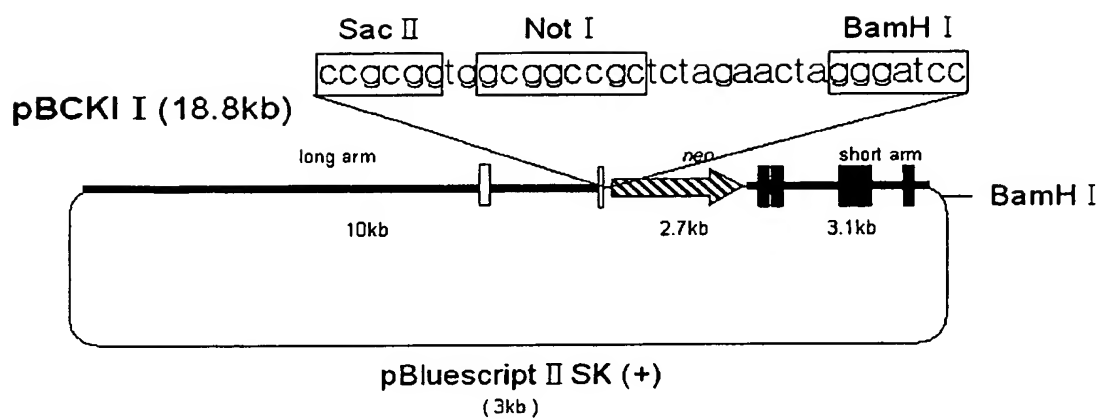
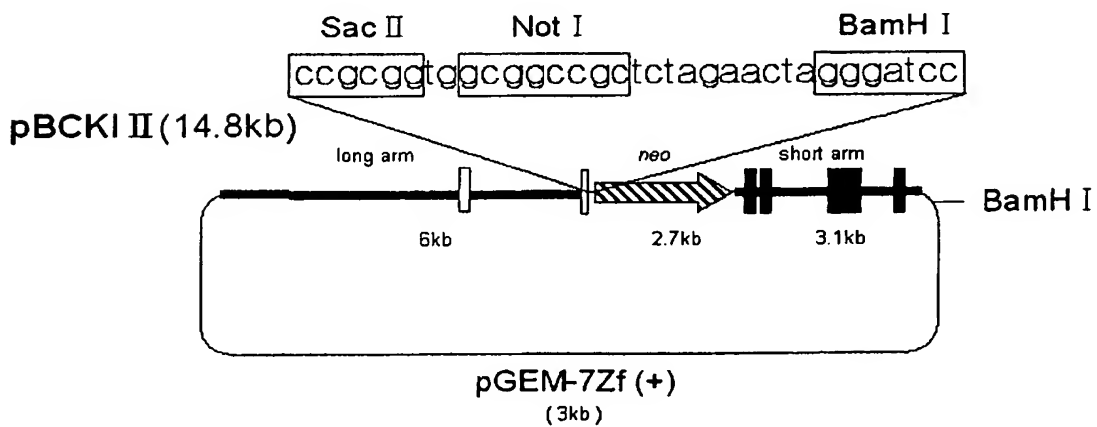


Fig. 2



2/21

Fig. 3

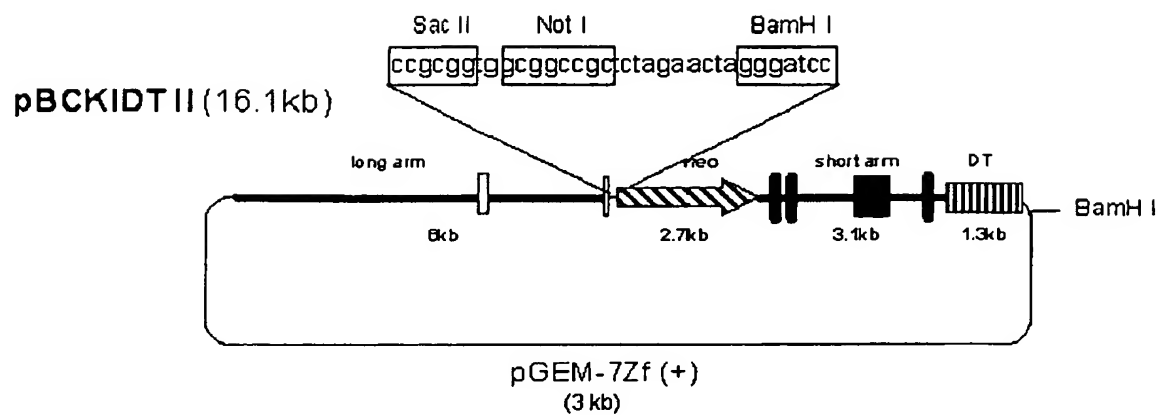
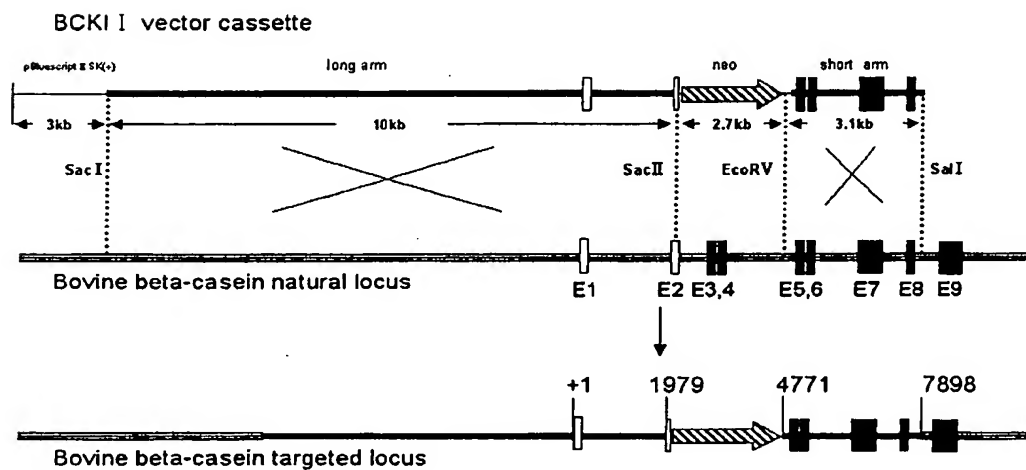


Fig. 4



3/21

Fig. 5

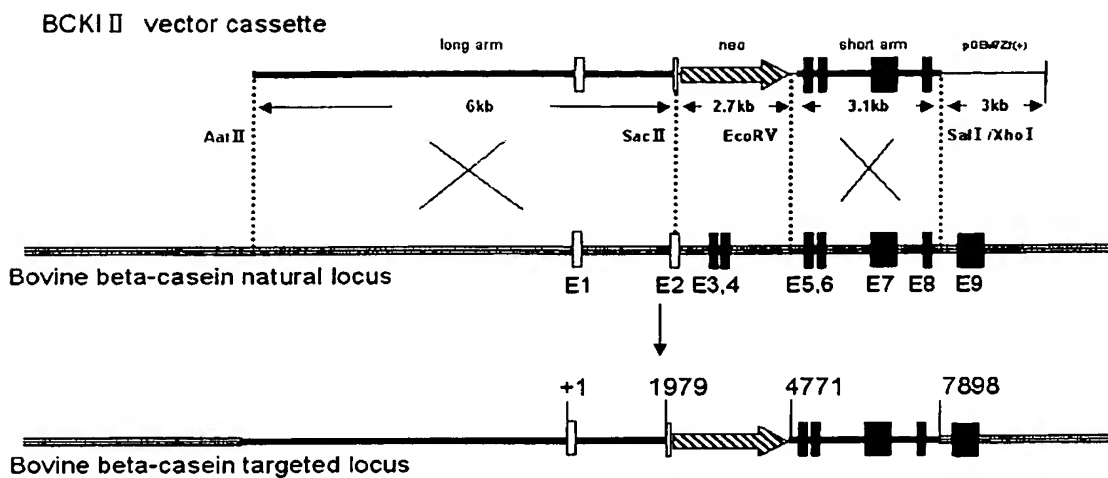
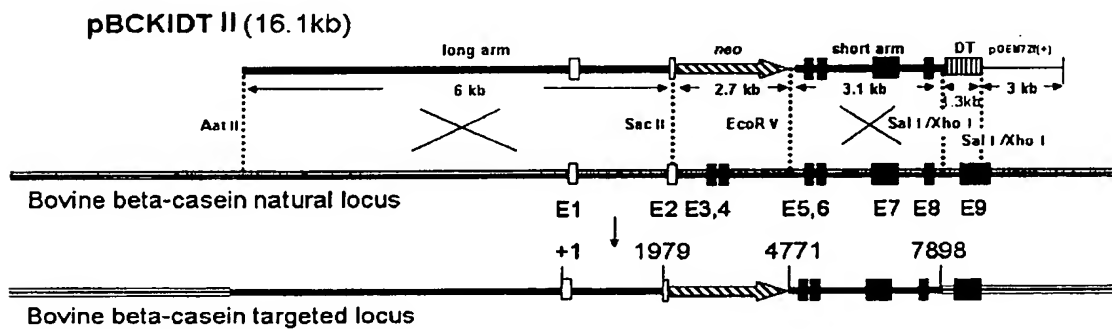
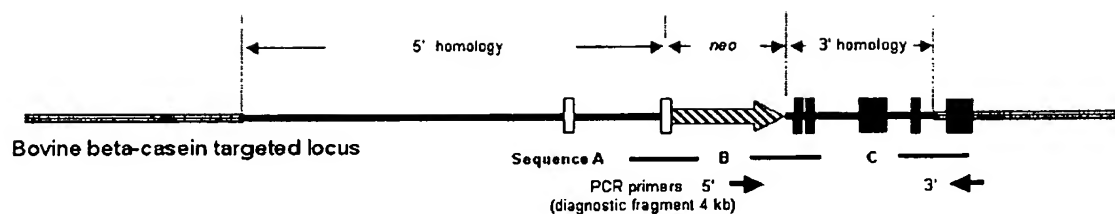


Fig. 6



4/21

Fig. 7



Sequence A

..... cccattccagggaattgagagcc | ccgcggtggcggccgctctagaactagggaicc | ccagggaagctctctggtctc
 5' homology restriction sites neo

Sequence B

PCR primer 5'
 ctta^{ccacacaggcatagagtgctg}ctattaataactaigctcaaaaatgtgtaccttagcttttaatttgaaaggggttaataagggaatattgatgatagtgcccttgactagagatcataatcagccatacc
 acattgtagagggtttacttggctttaaaaaacctcccacacctccctgaacctgaacataaaaagaaagcaattgtgtgttaactgtttatggcagcttataagggtacaaataagcaatagcatcacaattc
 acaataaagcatttttccactgcattctagttgggttggcacaactcacaatgtatcttcatgtctggatc | gacaaataagaatttttaagctagacc
 neo 3' homology

Sequence C

3' homology endogenous locus
 ttcatgagtcaaaatacaatctcacagtc | cagatagggaactiaaaaggggagagaatagtttgaatattcttaacaatacacatcctttgtgatcatgattcagcagacatttaataaaatgattccaagttaagc
 cgaatgtggctctagaggaattttataacctttaagagaaggcagcaggtgttttgaataagattctttatgaasaaagtcacaccaaaatgcaatgggggtgagatgaagagttataacataactaat
 ctatgtttgtctctatccacagaattgactgcgactgggaaat
 PCR primer 3'

5/21

Fig. 8

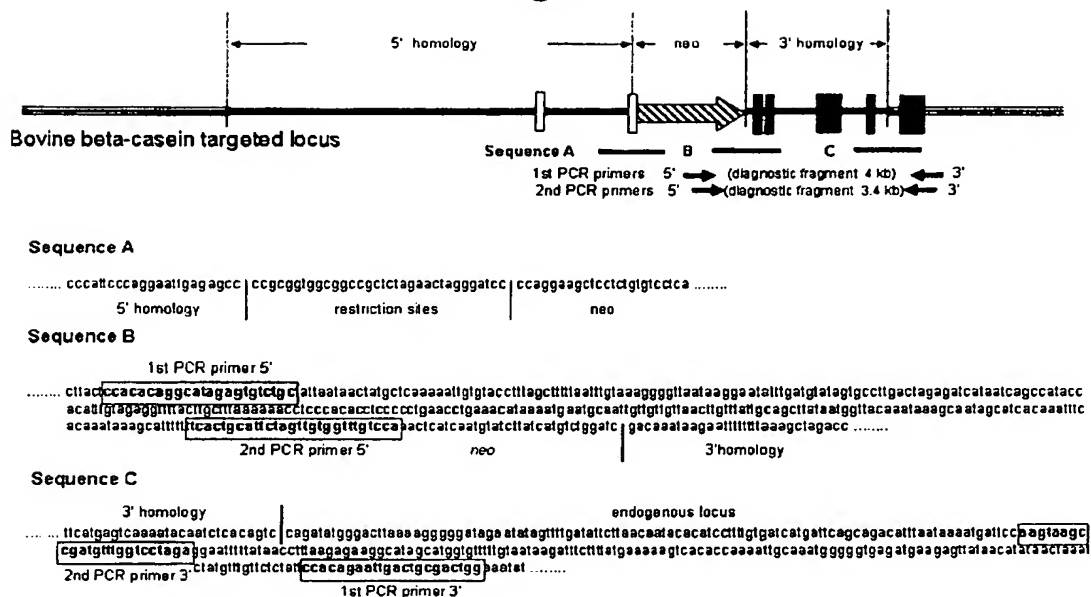
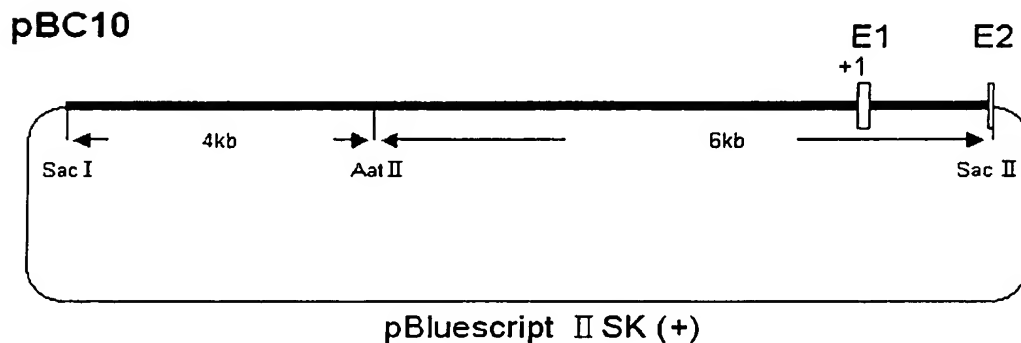


Fig. 9

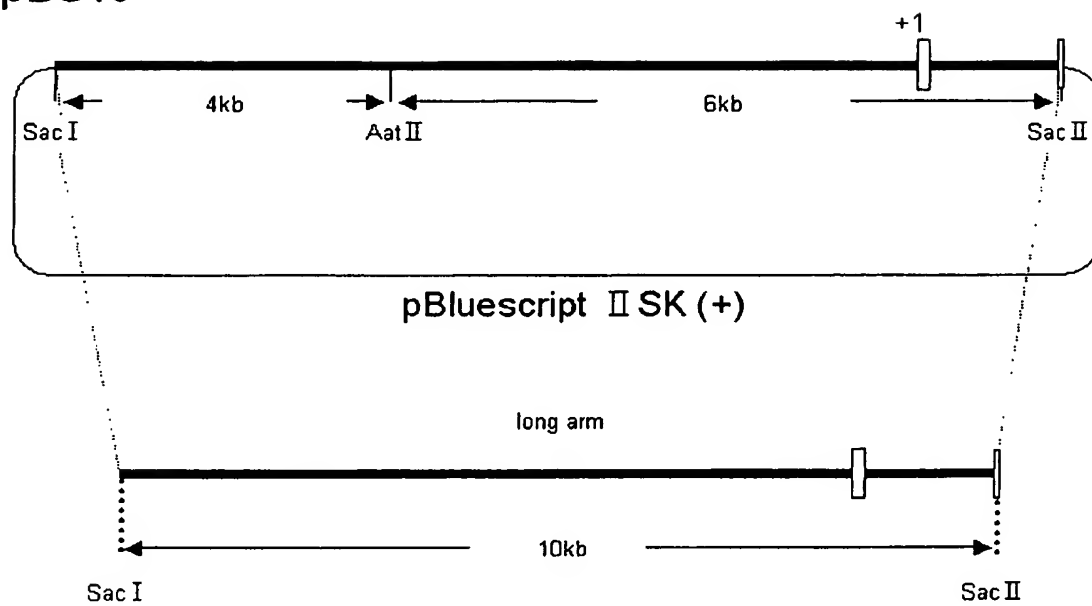


enzymes which do not cut the beta-casein gene locus in BC10 vector
Sma I , BamH I , Sal I , Spe I , Cla I

6/21

Fig. 10

pBC10



7/21

Fig. 11

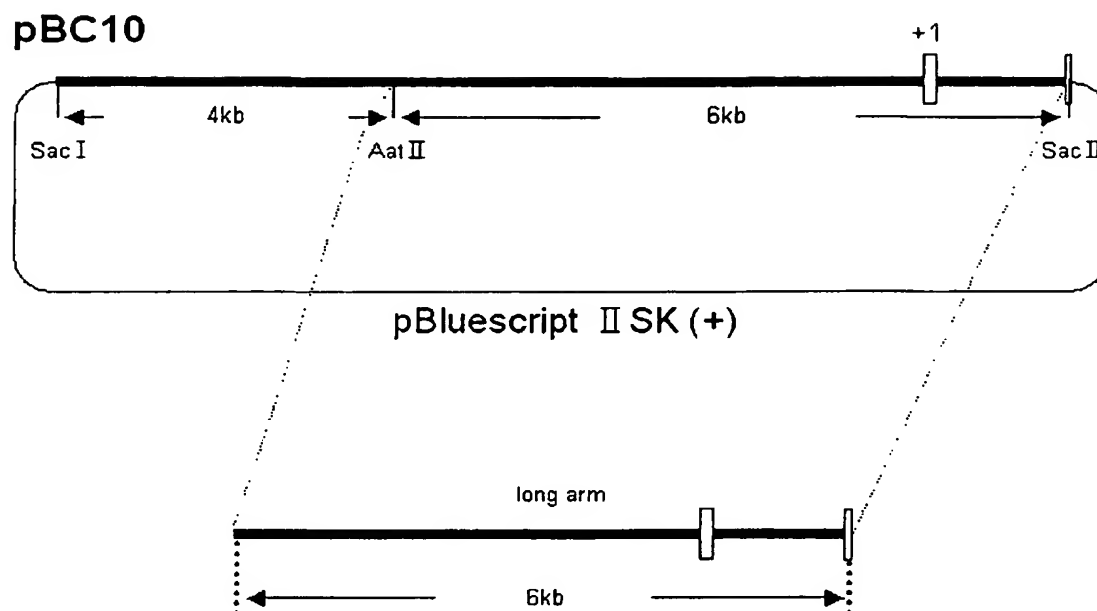
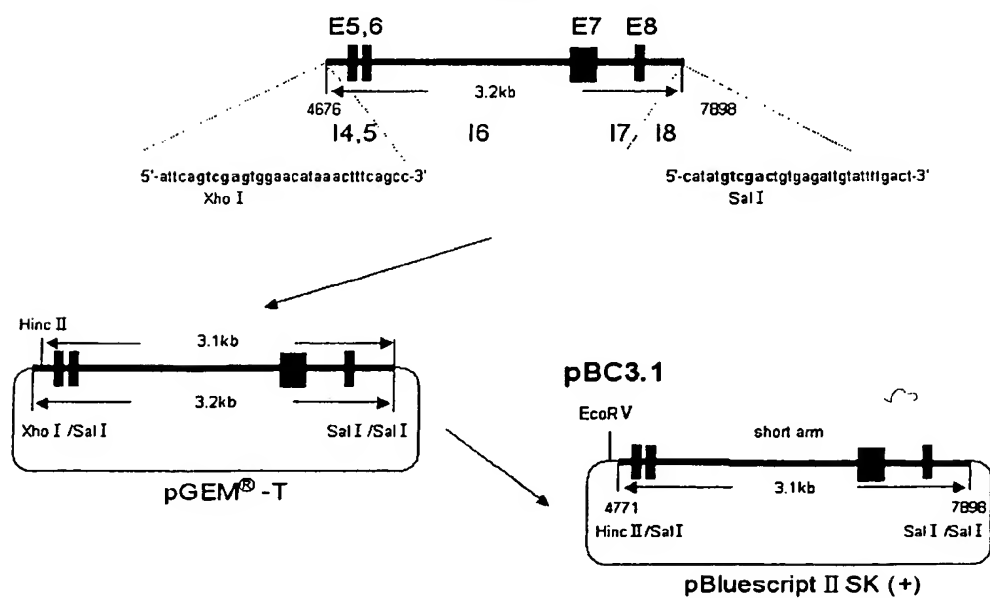
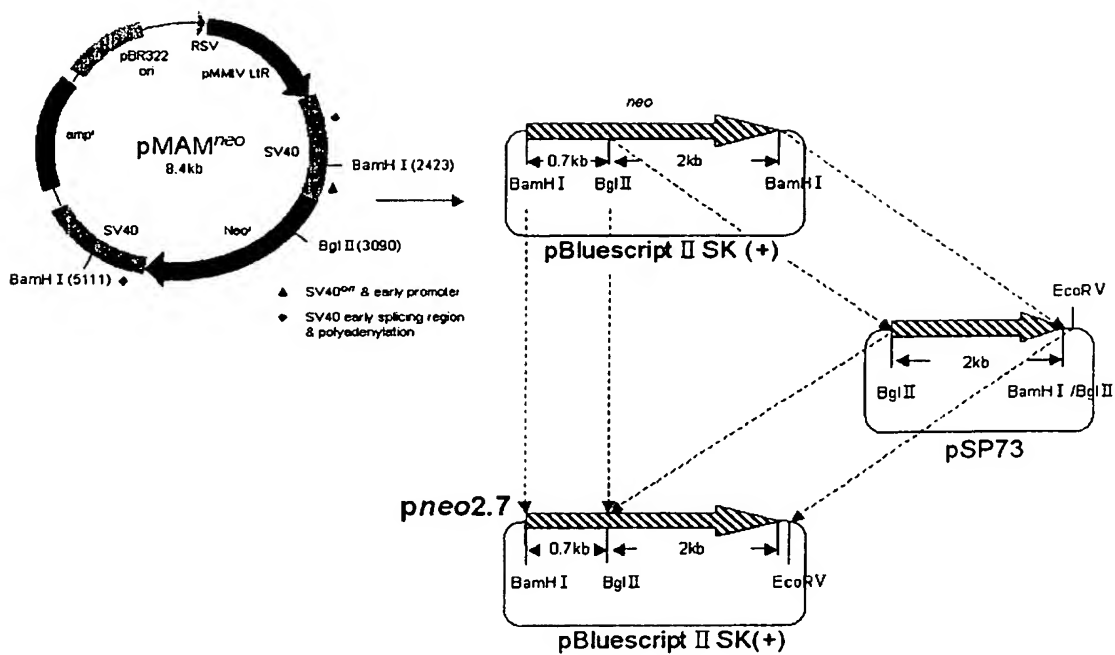


Fig. 12



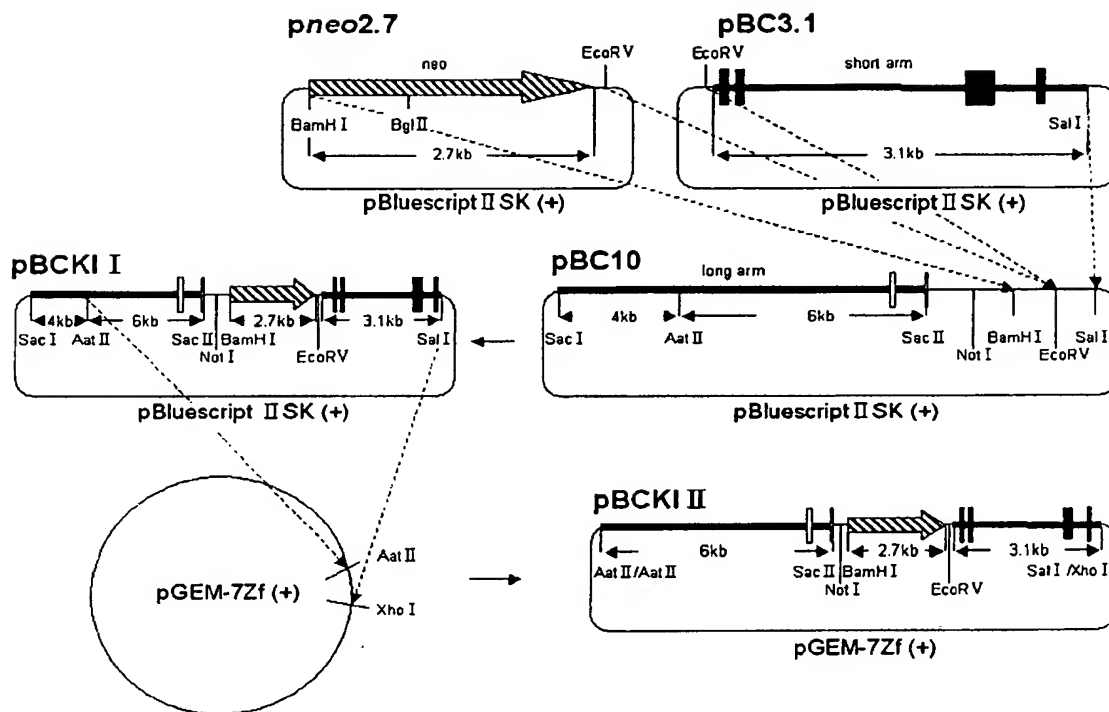
8/21

Fig. 13



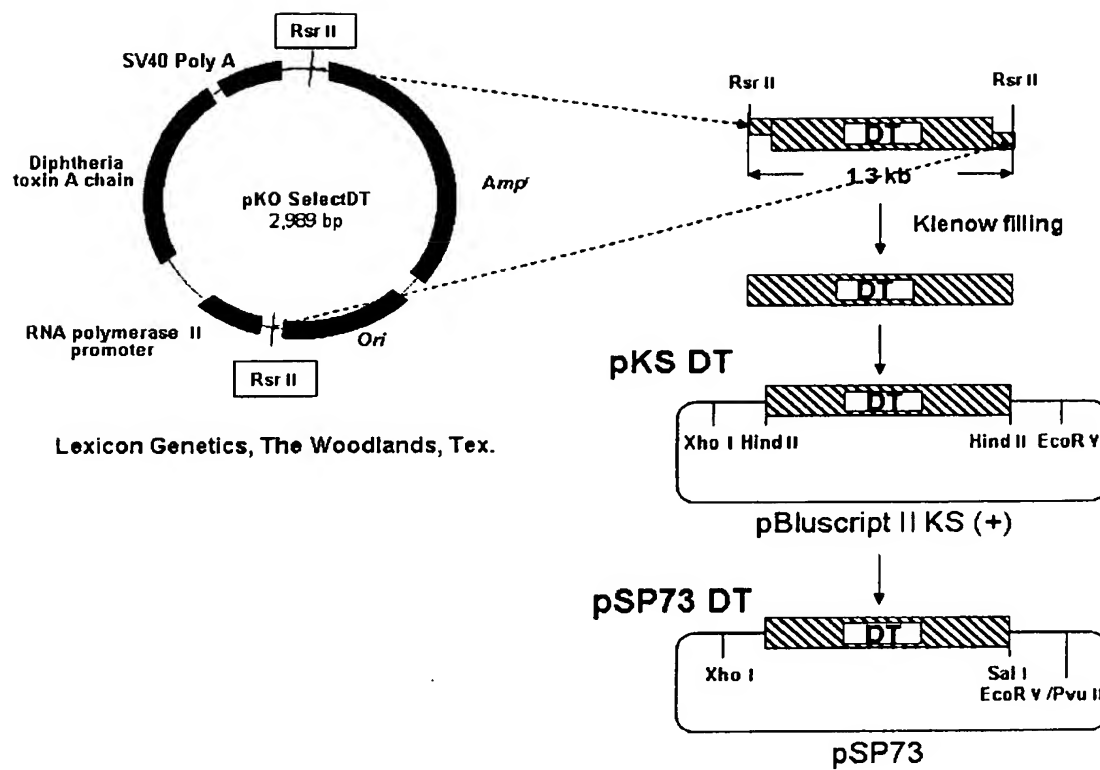
9/21

Fig. 14



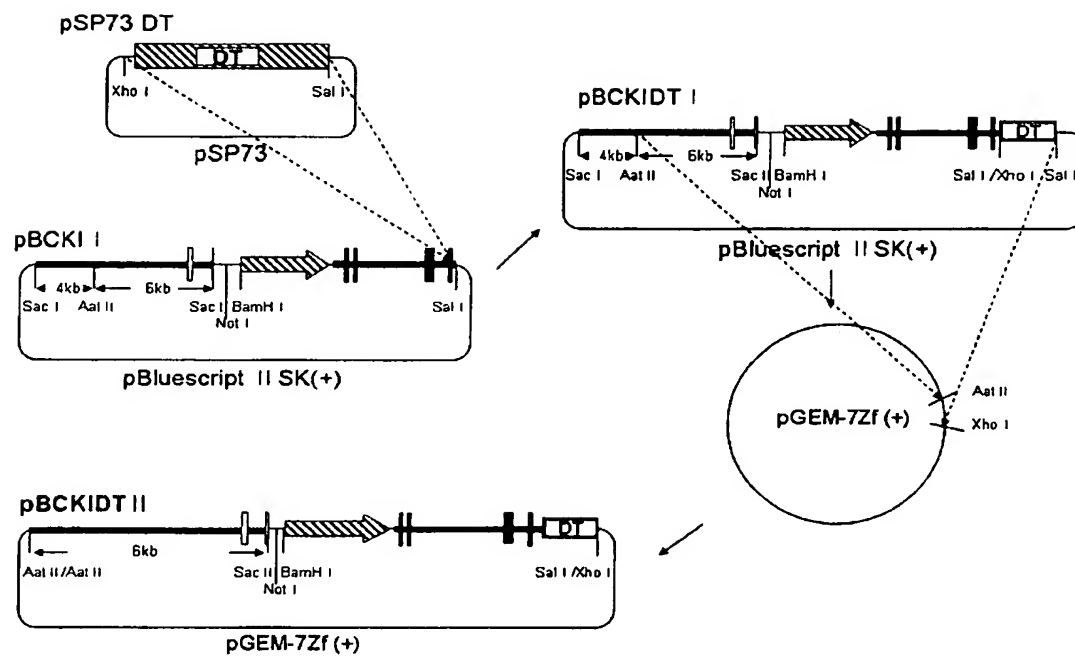
10/21

Fig. 15



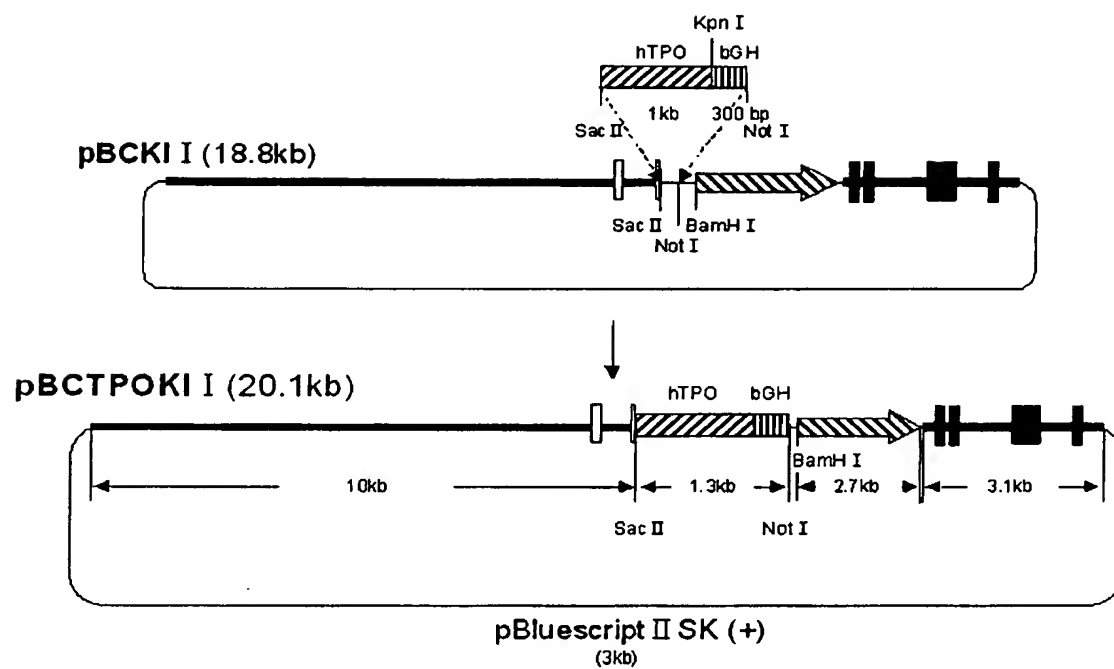
11/21

Fig. 16



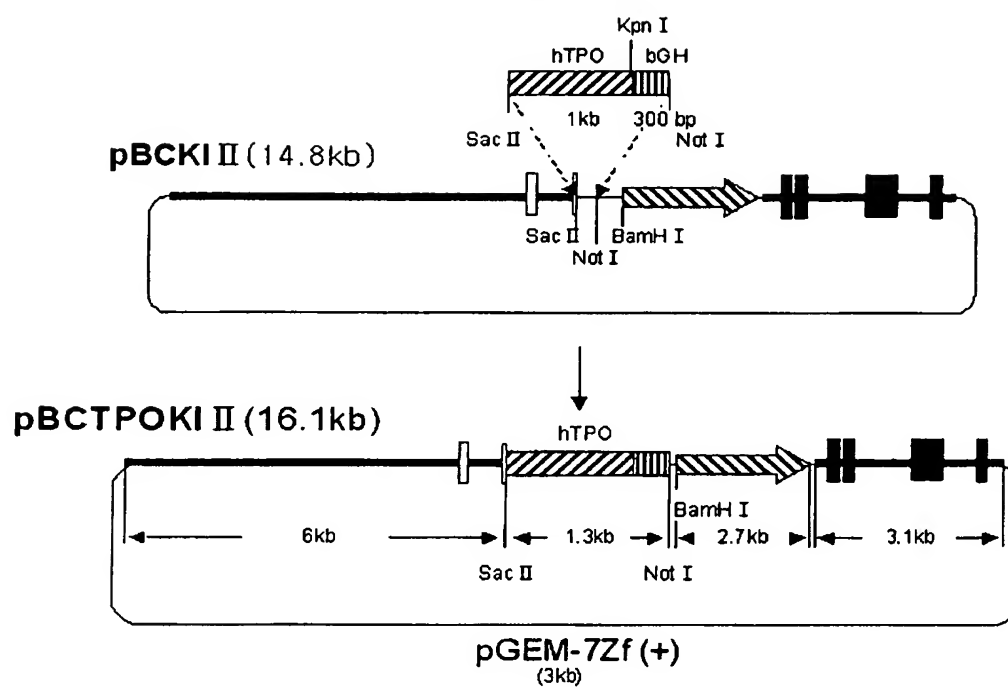
12/21

Fig. 17



13/21

Fig. 18



14/21

Fig. 19

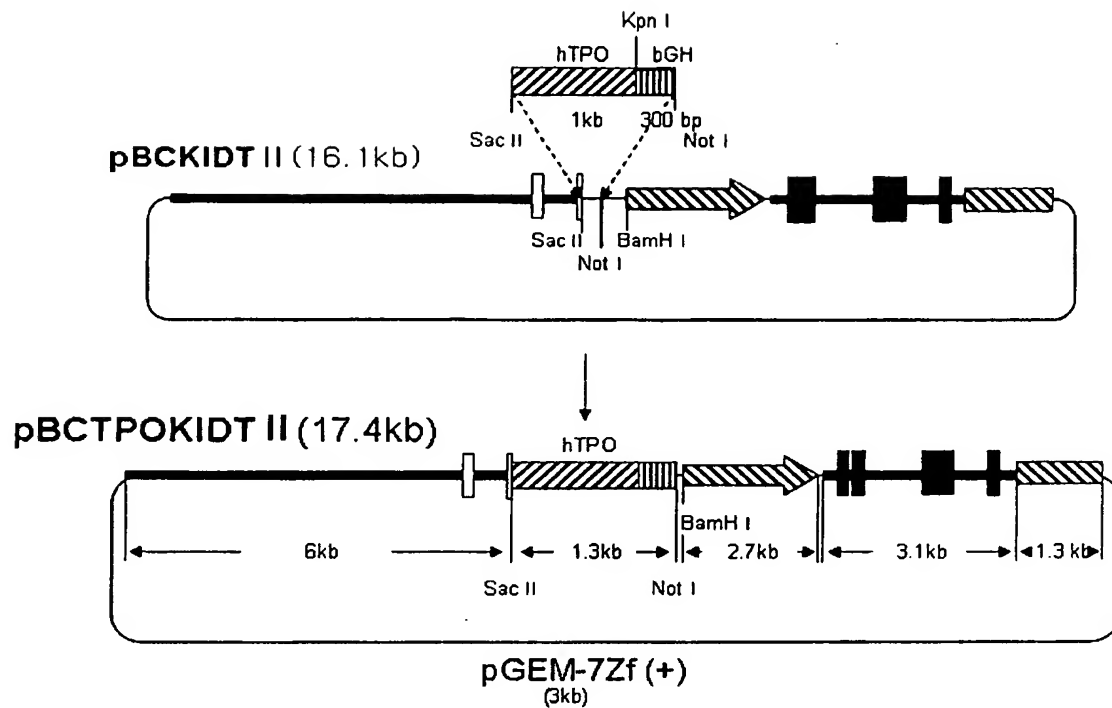
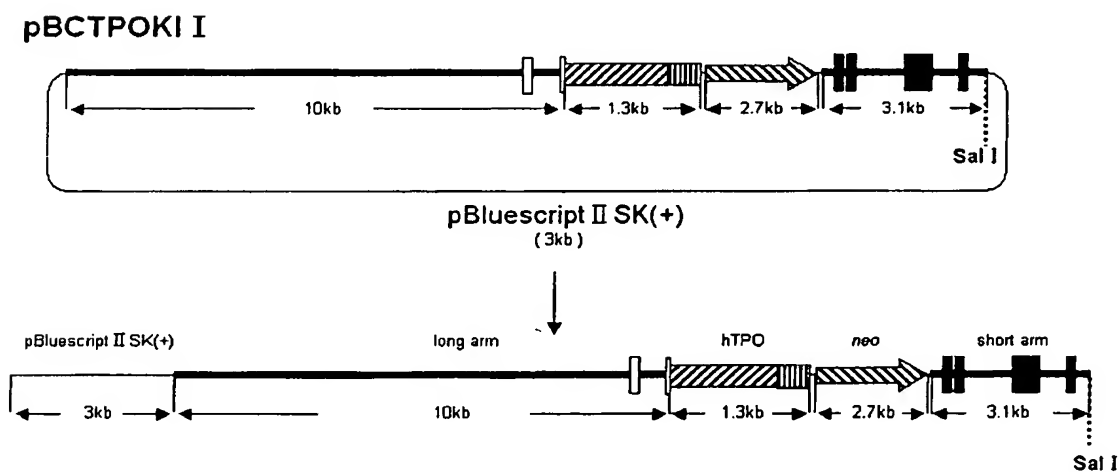


Fig. 20



15/21

Fig. 21

pBCTPOKI II

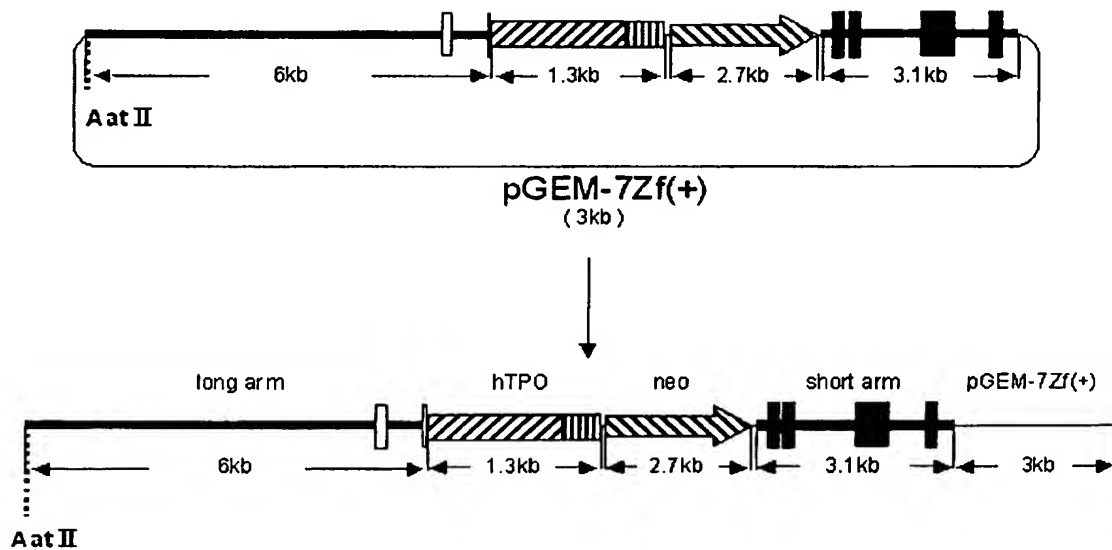
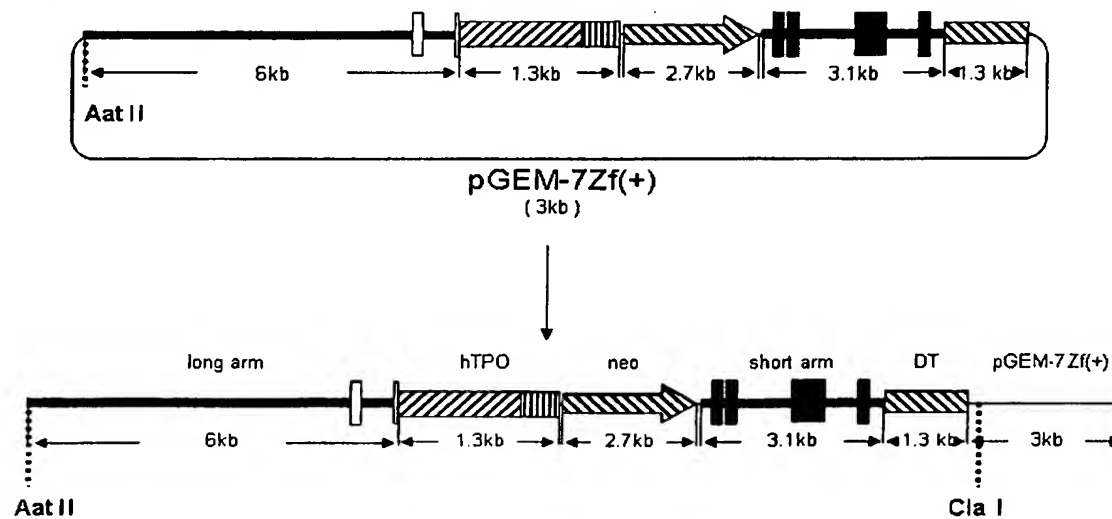


Fig. 22

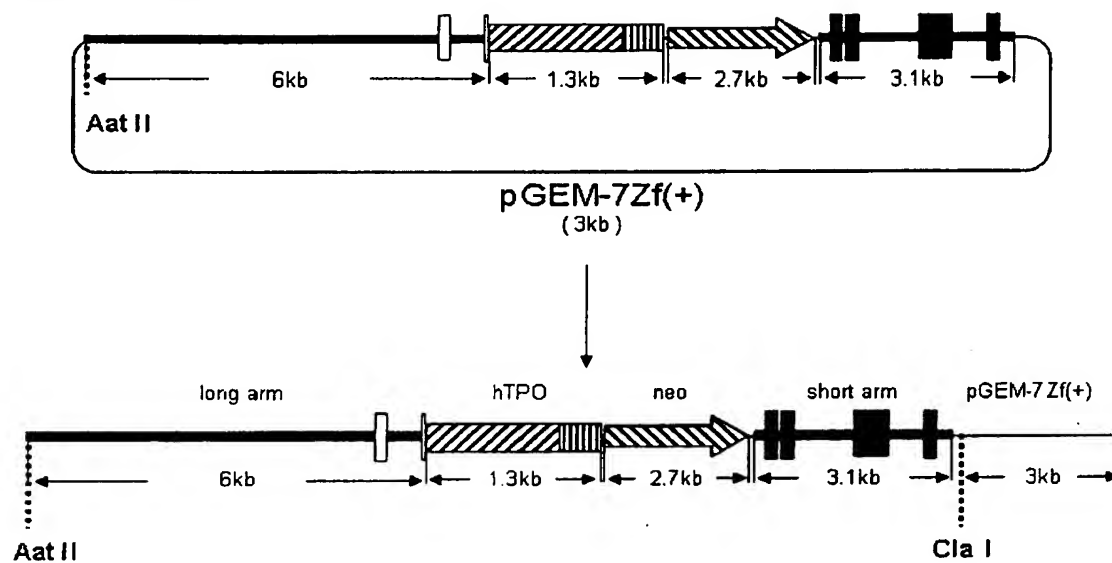
pBCTPOKIDT II



16/21

Fig. 23

pBCTPOKI II



17/21

Fig. 24

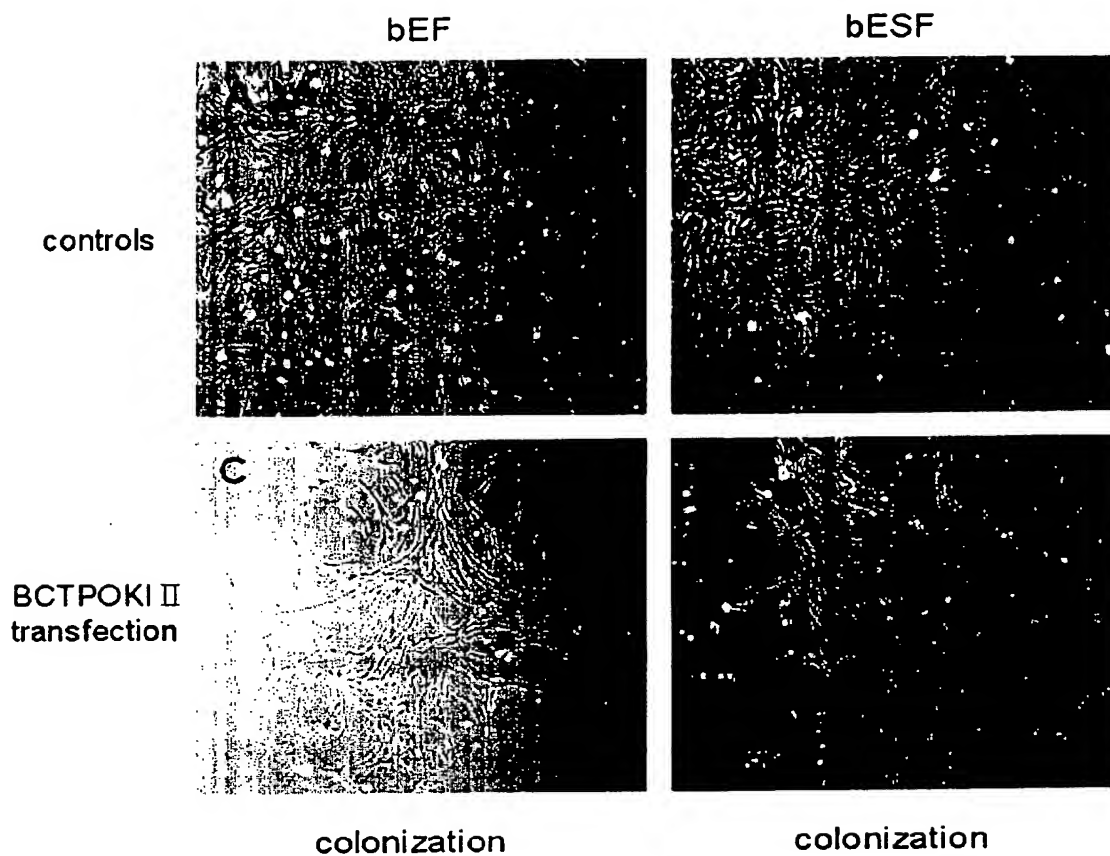
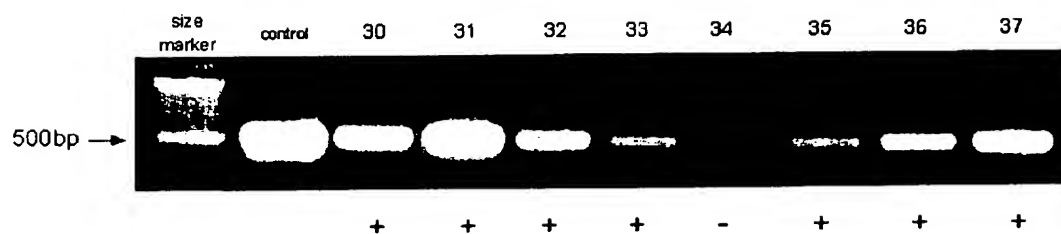


Fig. 25



18/21

Fig. 26

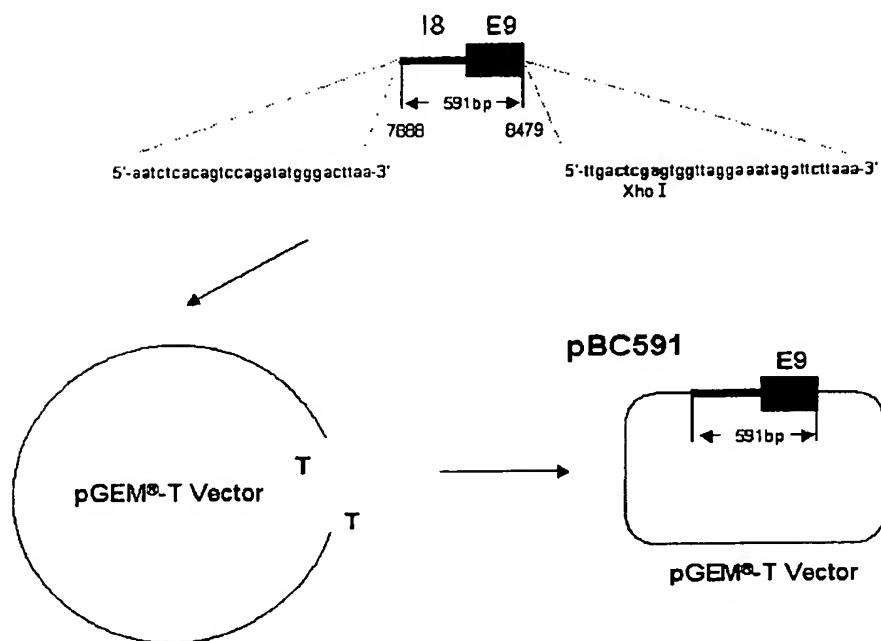
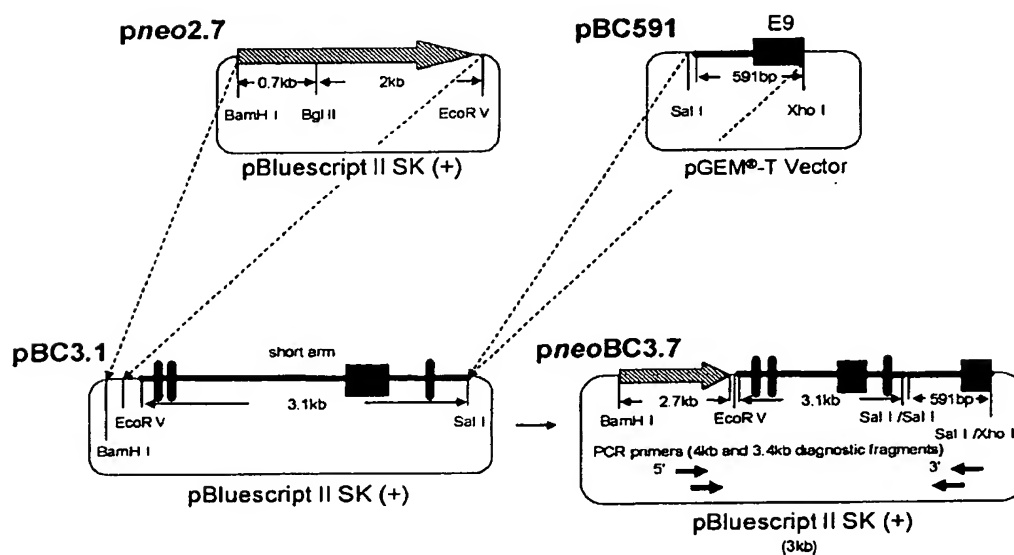


Fig. 27



19/21

Fig. 28

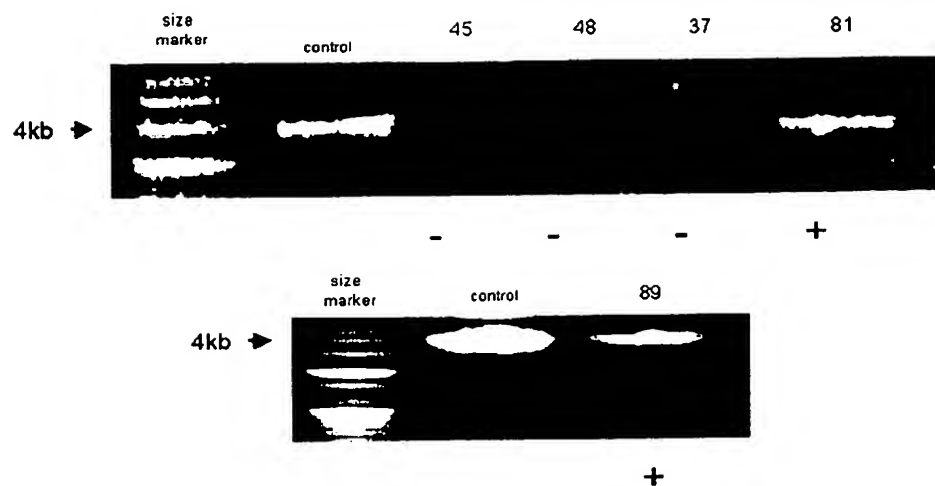
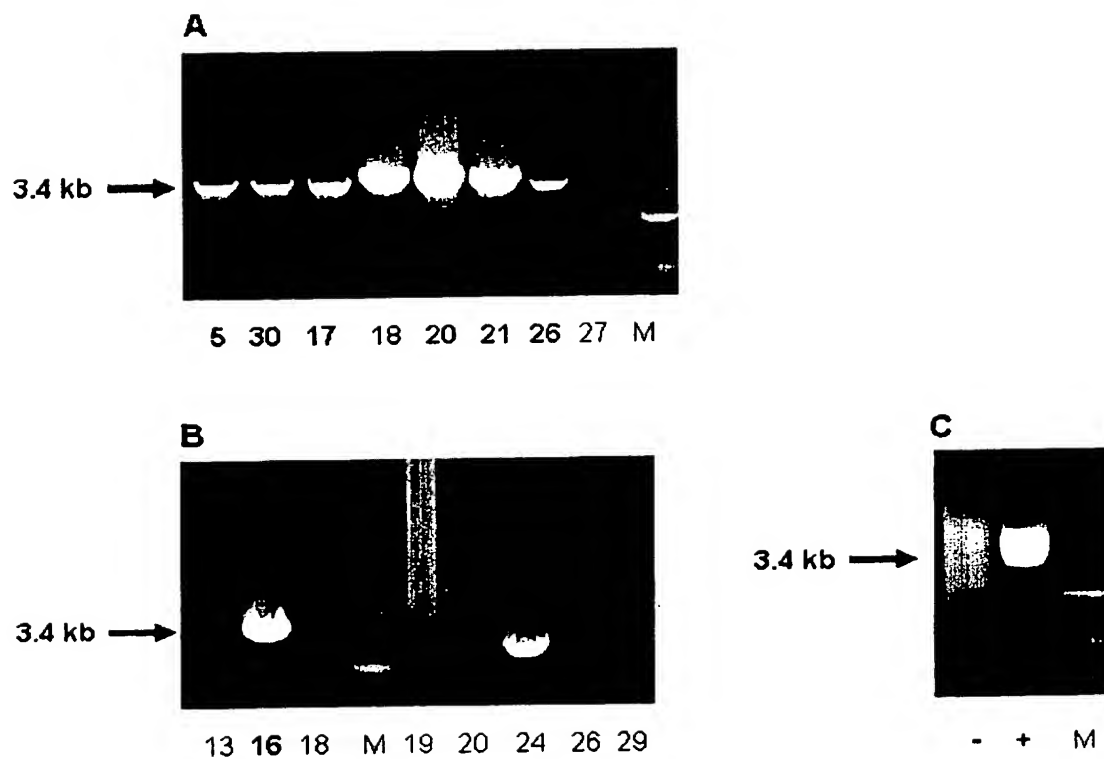


Fig. 29



20/21

Fig. 30

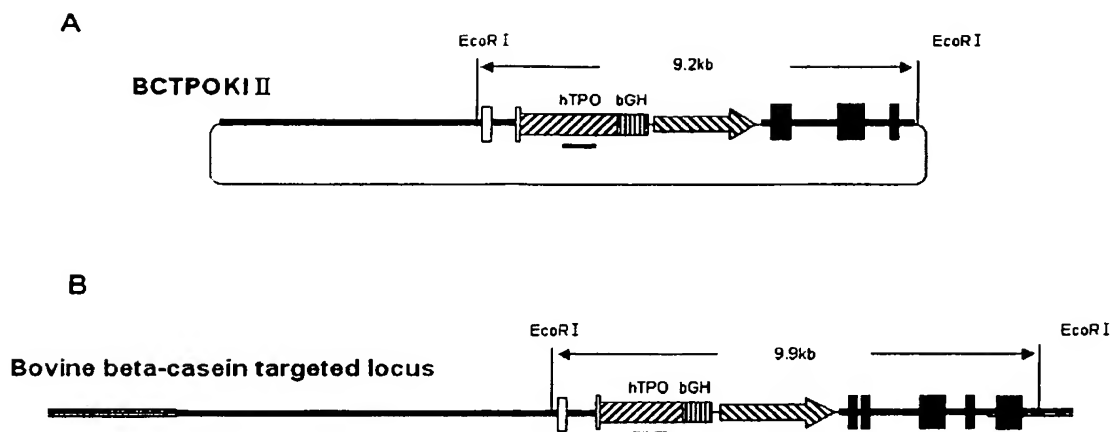
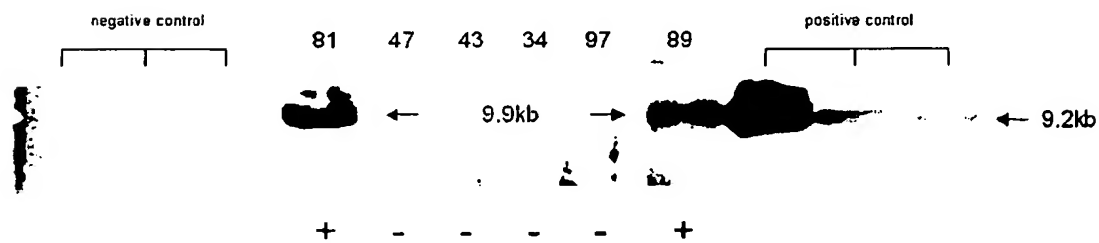


Fig. 31



21/21

Fig. 32

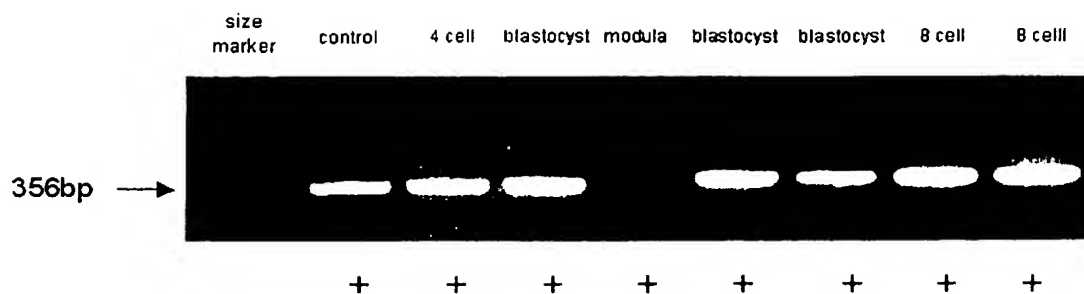
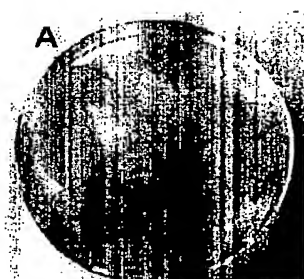
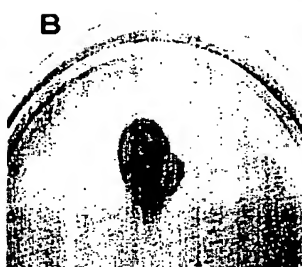


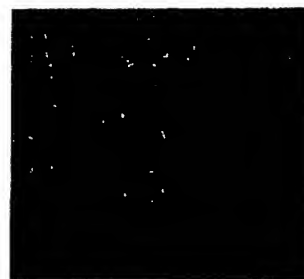
Fig. 33



A fetus enclosed with a fetal membrane



A fetal membrane-removed fetus



Cells derived from the fetal membrane

